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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,759	10/20/2003	Yu-Cheng Chen	4006-270	9603
570	7590	02/09/2006	EXAMINER	
AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103				NGUYEN, THANH NHAN P
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

EW

Office Action Summary	Application No.	Applicant(s)	
	10/687,759	CHEN ET AL.	
	Examiner	Art Unit	
	(Nancy) Thanh-Nhan P. Nguyen	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 19 December 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 12, 15-19, 22-26, 29 and 30 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 12, 15-19, 22-26, 29 and 30 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 20 October 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

This communication is responsive to RCE filed 12/19/2005. Claims 12, 15-19, 22-26, 29 & 30 are pending for the examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12, 15-19, 22-26, 29 & 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chartier (4,938,567) in view of Irwin, Jr. et al (6,491,215).

Regarding claims 19, 22 & 23, Chartier discloses a matrix structure of a display, comprising:

a substrate (1); and

a plurality of transistors (T11, T12, T13) arranged in a matrix on the substrate, each of the transistors is disposed near an intersection of a gate line extending in a first direction and a data line extending in a second direction orthogonal to the first direction and not disposed on the gate line or data line,

wherein the gate line includes:

a first main line (LG) formed in a first conductive layer; and

a plurality of first branch lines (lg1) formed in a second conductive layer spaced from the first conductive layer, each of the first branch lines having a first length and being separated from an adjacent first branch line by a first distance; and

the data line includes:

a second main line (CL) formed in the second conductive layer; and
a plurality of second branch lines (col1, col2) formed in the first conductive layer,
each of the second branch lines having a second length and being separated from each
adjacent second branch line by a second distance, [figs. 1-4, and 12];

Even though Chartier lacks disclosure of wherein a first ratio of the first length to
the first distance and a second ratio of the second length to the second distance are
greater than approximately 2 in order to reduce the resistance of the matrix structure of
the display, the main point of this limitation is about the resistance inversely proportional
to the area, as Irwin, Jr. et al discloses, [col. 27, lines 1-7]. Therefore, it would have
been obvious to a person of ordinary skill in the art at the time the invention was made
to pick out the range 2 to 9 for the benefit of getting the resistance from the multilayer.

Regarding claim 24, Chartier discloses the matrix structure of the display further
comprising a plurality of contact plugs (CX3) for connecting the first branch lines to the
first main line, [fig. 12].

Regarding claim 25, Chartier discloses the matrix structure of the display further
comprising a plurality of contact plugs (CX4, CX5) for connecting the second branch
lines to the second main line, [fig. 12].

Claim 12 is met the discussion regarding claim 19 rejection above.

Claim 15 is met the discussion regarding claims 12 and 22 rejection above.

Claim 16 is met the discussion regarding claims 12 and 23 rejection above.

Claim 17 is met the discussion regarding claims 12 and 24 rejection above.

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Claim 18 is met the discussion regarding claims 12 and 25 rejection above.

Claim 26 is met the discussion regarding to claim 19 rejection above except having an additional limitation, which is forming an insulating layer on the patterned first conductive layer, [fig. 5 – element 2].

Claim 29 is met the discussion regarding claims 26 and 22 rejection above.

Claim 30 is met the discussion regarding claims 26 and 23 rejection above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen

Examiner

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-- February 6, 2006 --

TN


ANDREW SCHECHTER
PRIMARY EXAMINER